

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Alycia Berman Examiner #: 76457 Date: 7/30/01  
Art Unit: 11219 Phone Number 308-4638 Serial Number: 09/701710  
Mail Box and Bldg/Room Location: CM1-3019 Results Format Preferred (circle): PAPER DISK E-MAIL  
3D12

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: See attached  
Inventors (please provide full names): See attached

Earliest Priority Filing Date: 6/3/98

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please do a structure search of catechin of claim 8.  
Also search compounds of claim 6 or extract of theaceae (claim 10) or Camellia sinensis (claim 11) or green tea in a topical or cosmetic or dermatologic or cream or lotion or salve.

Thanks

Point of Contact:  
Jan Delaval  
Librarian-Physical Sciences  
CM1 1E01 Tel: 308-4498

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher: <u>Jan</u>		NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: <u>4638</u>		AA Sequence (#) _____	Dialog _____
Searcher Location: _____		Structure (#) <u>✓</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>10/1</u>		Bibliographic <u>✓</u>	Dr.Link _____
Date Completed: <u>10/1</u>		Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____		Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>10</u>		Patent Family _____	WWW/Internet _____
Online Time: <u>190</u>		Other _____	Other (specify) _____

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:27:28 ON 01 OCT 2001  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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STRUCTURE FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7  
DICTIONARY FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT  
for details.

=> d ide can tot 192

L92 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 137766-94-0 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, (2S,3S)-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, (2S-cis)-

OTHER NAMES:

CN (+)-Epigallocatechin 3-gallate

CN (+)-Epigallocatechin gallate

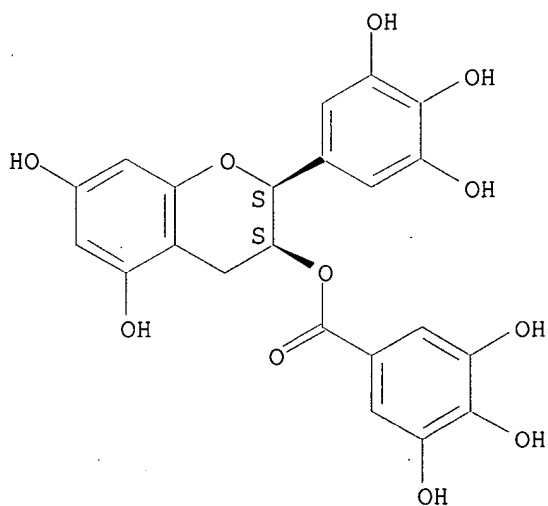
FS STEREOSEARCH

MF C22 H18 O11

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CHEMCATS, TOXLIT, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



*claim 6*

Point of Contact:  
Jan Deland  
Librarian-Physical Sciences  
CM1 1E01 Tel: 308-4498

7 REFERENCES IN FILE CA (1967 TO DATE)  
7 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:280620

REFERENCE 2: 133:310854

REFERENCE 3: 131:314196

REFERENCE 4: 131:120607

REFERENCE 5: 126:220714

REFERENCE 6: 126:84603

REFERENCE 7: 116:734

L92 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 137425-07-1 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, (2R-cis)-, mixt. with 3,5,7-trihydroxy-2-phenyl-4H-1-benzopyran-4-one (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl-, mixt. contg. (9CI)

FS STEREOSEARCH

MF C22 H18 O11 . C15 H10 O5

CI MXS

SR CA

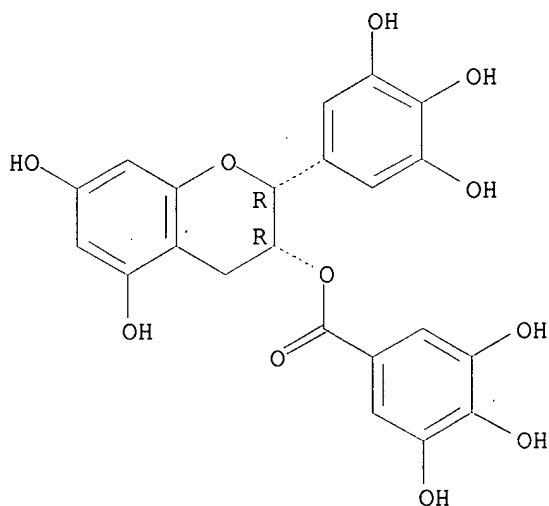
LC STN Files: CA, CAPLUS, TOXLIT

CM 1

CRN 989-51-5

CMF C22 H18 O11

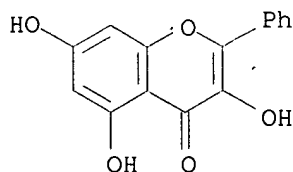
Absolute stereochemistry. Rotation (-).



CM 2

CRN 548-83-4

CMF C15 H10 O5



## 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:248130

L92 .ANSWER 3 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 137425-06-0 REGISTRY

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl-, mixt. with  
(2R-cis)-3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3,5,7-  
triol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-,  
(2R-cis)-, mixt. contg. (9CI)

FS STEREOSEARCH

MF C15 H14 O7 . C15 H10 O5

CI MXS

SR CA

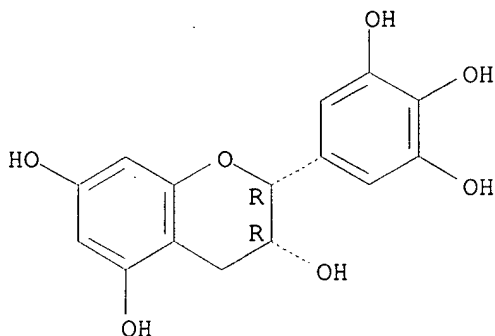
LC STN Files: CA, CAPLUS, TOXLIT

CM 1

CRN 970-74-1

CMF C15 H14 O7

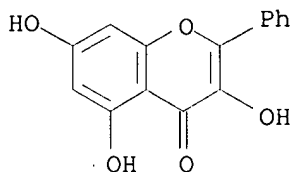
Absolute stereochemistry.



CM 2

CRN 548-83-4

CMF C15 H10 O5



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:248130

L92 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 136892-45-0 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-,  
(2S,3S)- (9CI) (CA INDEX NAME)

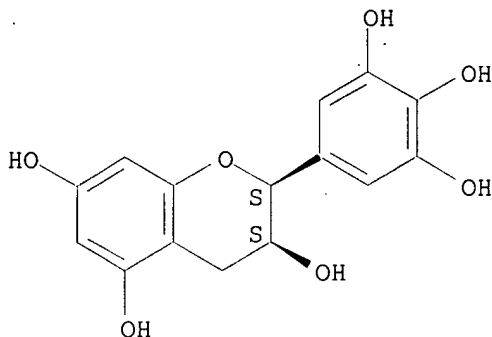
OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-,  
(2S-cis)-

## OTHER NAMES:

CN (+)-Epigallocatechin  
FS STEREOSEARCH  
MF C15 H14 O7  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CHEMINFORMRX, TOXLIT, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



*claim 7*

8 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:314196

REFERENCE 2: 131:120607

REFERENCE 3: 129:53769

REFERENCE 4: 126:220714

REFERENCE 5: 125:309011

REFERENCE 6: 118:21174

REFERENCE 7: 116:734

REFERENCE 8: 115:197710

L92 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 130405-40-2 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, (2S,3R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-5,7-dihydroxy-2H-1-benzopyran-3-yl ester (9CI) (CA INDEX NAME)

## OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-5,7-dihydroxy-2H-1-benzopyran-3-yl ester, (2S-trans)-

## OTHER NAMES:

CN (-)-Catechin gallate

FS STEREOSEARCH

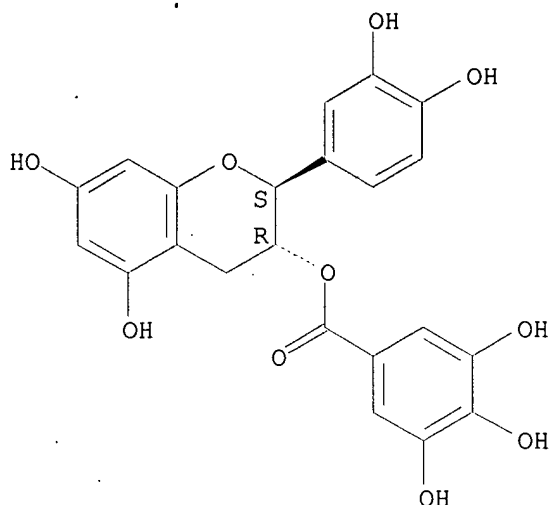
MF C22 H18 O10

SR CA

LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, CHEMCATS, CSCHEM, TOXLIT, USPATFULL

(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



*claim 6*

46 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 46 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:210069  
 REFERENCE 2: 135:194757  
 REFERENCE 3: 135:136564  
 REFERENCE 4: 135:121339  
 REFERENCE 5: 135:116766  
 REFERENCE 6: 135:66050  
 REFERENCE 7: 134:336880  
 REFERENCE 8: 134:114963  
 REFERENCE 9: 134:55660  
 REFERENCE 10: 134:25362

L92 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN **101840-48-6** REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, ester with (2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-2H-1-benzopyran-3,5,7-triol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, ester with (2R-trans)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-2H-1-benzopyran-3,5,7-triol

OTHER NAMES:

CN (+)-Catechin gallate

CN Catechin gallate

FS STEREOSEARCH

MF C15 H14 O6 . x C7 H6 O5

SR CA

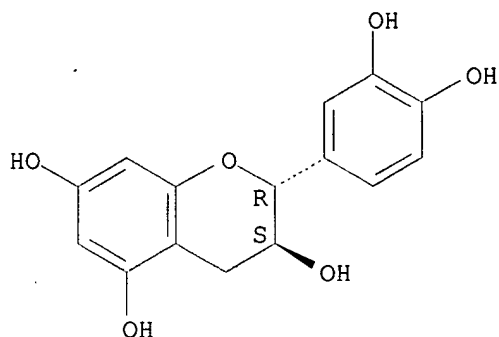
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, NAPRALERT, TOXLIT

CM 1

CRN 154-23-4

CMF C15 H14 O6

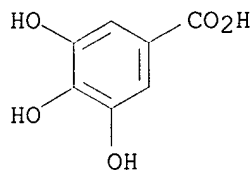
Absolute stereochemistry. Rotation (+).



CM 2

CRN 149-91-7  
CMF C7 H6 O5

*clacate*



20 REFERENCES IN FILE CA (1967 TO DATE)  
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
20 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:331603  
REFERENCE 2: 134:160076  
REFERENCE 3: 133:27659  
REFERENCE 4: 131:314196  
REFERENCE 5: 131:120607  
REFERENCE 6: 131:72842  
REFERENCE 7: 129:242495  
REFERENCE 8: 128:248554  
REFERENCE 9: 125:299737  
REFERENCE 10: 125:274251

L92 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 35323-91-2 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-,  
(2S,3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-,  
(2S-cis)-

OTHER NAMES:

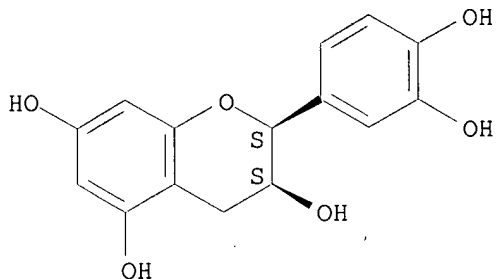
CN (+)-Epicatechin

CN (+)-Epicatechol

CN (2S,3S)-(+)-Epicatechin

CN d-Epicatechin  
FS STEREOSEARCH  
MF C15 H14 O6  
CI COM  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAPLUS, CHEMCATS,  
CHEMINFORMRX, IFICDB, IFIPAT, IFIUDB, IPA, NAPRALERT, TOXLINE, TOXLIT,  
USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



*claim 8?*

72 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
72 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:210286  
REFERENCE 2: 135:194757  
REFERENCE 3: 135:131718  
REFERENCE 4: 135:121339  
REFERENCE 5: 135:66050  
REFERENCE 6: 134:236393  
REFERENCE 7: 134:236383  
REFERENCE 8: 134:231816  
REFERENCE 9: 134:28801  
REFERENCE 10: 134:25362

L92 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 18829-70-4 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-,  
(2S,3R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-,  
(2S-trans)-

CN Catechol, (-)- (8CI)

OTHER NAMES:

CN (-)-Catechin

CN (-)-Catechol

CN l-Catechin

CN L-Catechin

FS STEREOSEARCH

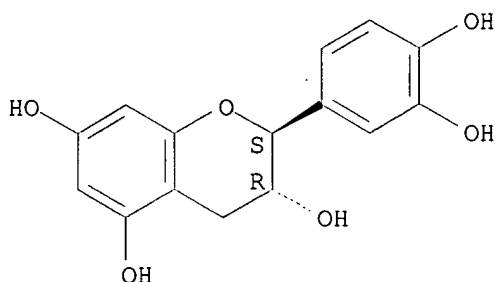
MF C15 H14 O6

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA,  
CAPLUS, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, IFICDB,



IFIPAT, IFIUDB, MRCK\*, NAPRALERT, PROMT, TOXLINE, TOXLIT, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



claim 7

90 REFERENCES IN FILE CA (1967 TO DATE)  
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
91 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:131718  
REFERENCE 2: 135:121339  
REFERENCE 3: 135:116766  
REFERENCE 4: 135:66050  
REFERENCE 5: 134:28801  
REFERENCE 6: 134:25362  
REFERENCE 7: 133:358971  
REFERENCE 8: 133:234567  
REFERENCE 9: 133:192358  
REFERENCE 10: 133:176459

L92 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 5127-64-0 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, (2R,3S)-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, (2R-trans)-

CN Gallic acid, ester with gallic acid

CN Gallic acid, ester with gallic acid

CN Gallic acid, ester with gallic acid

OTHER NAMES:

CN (+)-Gallic acid gallate

CN 3-O-Galloyl-(+)-gallic acid

CN Gallic acid gallate

FS STEREOSEARCH

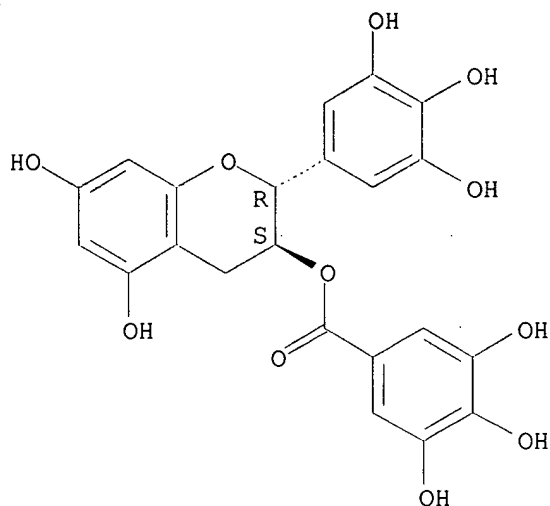
DR 36291-30-2

MF C22 H18 O11

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, DDFU, DRUGU, NAPRALERT, TOXLIT, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry: Rotation (+).



69 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

70 REFERENCES IN FILE CAPLUS (1967 TO DATE)

22 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:216375

REFERENCE 2: 135:205163

REFERENCE 3: 135:194757

REFERENCE 4: 135:97422

REFERENCE 5: 135:73687

REFERENCE 6: 135:30553

REFERENCE 7: 134:366018

REFERENCE 8: 134:331603

REFERENCE 9: 134:325472

REFERENCE 10: 134:261257

L92 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 4233-96-9 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, (2S,3R)-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, (2S-trans)-

CN Gallic acid, ester with gallocatechol, (-)

CN Gallocatechol, 3-gallate, (-)- (8CI)

OTHER NAMES:

CN (-)-Gallocatechin 3-O-gallate

CN (-)-Gallocatechin gallate

CN (-)-Gallocatechol gallate

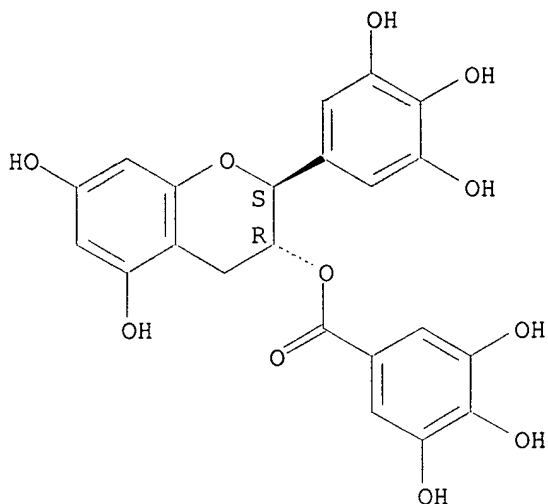
CN NVP-XAA 225

FS STEREOSEARCH

MF C22 H18 O11

LC .STN Files: ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CHEMCATS,  
 NAPRALERT, RTECS\*, TOXLIT, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



107 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 108 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:207715  
 REFERENCE 2: 135:194582  
 REFERENCE 3: 135:166246  
 REFERENCE 4: 135:136564  
 REFERENCE 5: 135:121339  
 REFERENCE 6: 135:116766  
 REFERENCE 7: 135:97484  
 REFERENCE 8: 135:66050  
 REFERENCE 9: 135:4505  
 REFERENCE 10: 134:336880

L92 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 1257-08-5 REGISTRY.

CN Benzoic acid, 3,4,5-trihydroxy-, (2R,3R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-5,7-dihydroxy-2H-1-benzopyran-3-yl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-5,7-dihydroxy-2H-1-benzopyran-3-yl ester, (2R-cis)-

CN Epicatechol, 3-gallate, (-)- (8CI)

CN Epicatechol, gallate (6CI)

CN Gallic acid, 3-ester with epicatechol, (-)- (8CI)

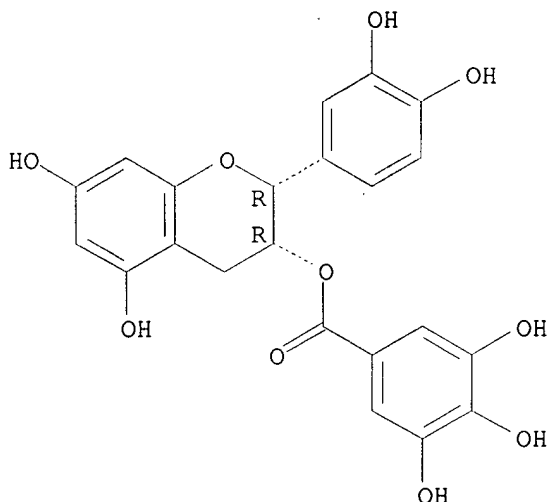
OTHER NAMES:

CN (-)-epi-Catechin 3-O-gallate

CN (-)-Epicatechin 3-gallate

CN .(-)-Epicatechin 3-O-gallate  
 CN (-)-Epicatechol gallate  
 CN 3-Galloyl-(-)-epicatechin  
 CN 3-O-Galloyl-(-)-epicatechin  
 CN .3-O-Galloylepicatechin  
 CN epi-Catechin 3-O-gallate  
 CN Epicatechin gallate  
 CN Epicatechol 3-gallate  
 CN L-Epicatechin gallate  
 FS STEREOSEARCH  
 MF C22 H18 O10  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA,  
 CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, IPA, NAPRALERT, RTECS\*,  
 TOXLINE, TOXLIT, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



696 REFERENCES IN FILE CA (1967 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

698 REFERENCES IN FILE CAPLUS (1967 TO DATE)

44 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:210069  
 REFERENCE 2: 135:207715  
 REFERENCE 3: 135:204892  
 REFERENCE 4: 135:200277  
 REFERENCE 5: 135:194757  
 REFERENCE 6: 135:194582  
 REFERENCE 7: 135:190373  
 REFERENCE 8: 135:189665  
 REFERENCE 9: 135:179849  
 REFERENCE 10: 135:170556

CN . Benzoic acid, 3,4,5-trihydroxy-, (2R,3R)-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester (9CI) (CA INDEX NAME)

## OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, (2R-cis)-

CN Epigallocatechol, 3-gallate (7CI)

CN Epigallocatechol, 3-gallate, (-)- (8CI)

CN Epigallocatechol, gallate (6CI)

CN Gallic acid, 3-ester with epigallocatechol, (-)- (8CI)

## OTHER NAMES:

CN (-)-epi-Gallocatechin 3-O-gallate

CN (-)-Epigallocatechin 3-gallate

CN (-)-Epigallocatechin 3-O-gallate

CN (-)-Epigallocatechin gallate

CN (-)-Epigallocatechol gallate

CN 3-O-Galloyl-(-)-epigallocatechin

CN epi-Gallocatechin 3-O-gallate

CN Epigallocatechin 3-gallate

CN Epigallocatechin gallate

CN L-Epigallocatechin gallate

CN NVP-XAA 723

FS STEREOSEARCH

DR 863-65-0

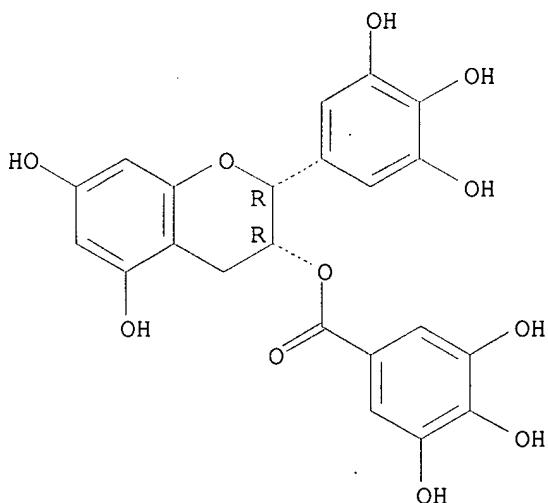
MF C22 H18 O11

CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MRCK\*, NAPRALERT, NIOSHTIC, PROMT, RTECS\*, SYNTHLINE, TOXLINE, TOXLIT, USPATFULL

(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



1345 REFERENCES IN FILE CA (1967 TO DATE)

18 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1351 REFERENCES IN FILE CAPLUS (1967 TO DATE)

46 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:216375

REFERENCE 2: 135:210069

REFERENCE 3: 135:207519

REFERENCE 4: 135:205507

REFERENCE 5: 135:205163

REFERENCE 6: 135:204985

REFERENCE 7: 135:204919

REFERENCE 8: 135:204892

REFERENCE 9: 135:194940

REFERENCE 10: 135:194757

L92 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 970-74-1 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-,  
(2R,3R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-,  
(2R-cis)-

CN Epigallocatechol (8CI)

OTHER NAMES:

CN (-)-3,3',4',5,5',7-Flavanhexol

CN (-)-epi-Gallocatechin

CN (-)-Epigallocatechin

CN (-)-Epigallocatechol

CN 1-epi-3',4',5',5',7-Pentahydroxy-3-flavanol

CN 3,3',4',5,5',7-Flavanhexol

CN Antiscurvy factor C2

CN epi-Gallocatechin

CN Epigallocatechin

CN Factor C2 (antiscurvy)

CN 1-Epigallocatechin

CN L-Epigallocatechin

CN 1-Epigallocatechol

FS STEREOSEARCH

DR 98032-84-9, 2545-09-7

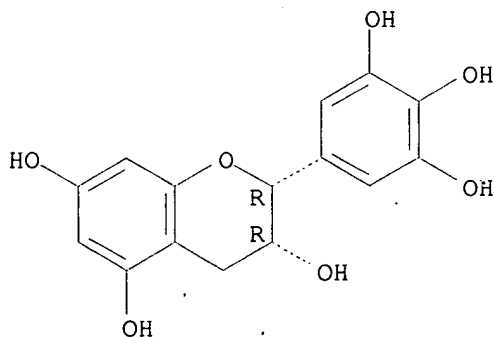
MF C15 H14 O7

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM,  
DDFU, DRUGU, EMBASE, IPA, NAPRALERT, PROMT, RTECS\*, TOXLINE, TOXLIT,  
USPATFULL

(\*File contains numerically searchable property data)

Absolute stereochemistry.



1057 REFERENCES IN FILE CA (1967 TO DATE)

16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1060 REFERENCES IN FILE CAPLUS (1967 TO DATE)

13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:210069  
 REFERENCE 2: 135:205507  
 REFERENCE 3: 135:204892  
 REFERENCE 4: 135:194940  
 REFERENCE 5: 135:194757  
 REFERENCE 6: 135:194582  
 REFERENCE 7: 135:189695  
 REFERENCE 8: 135:189665  
 REFERENCE 9: 135:179849  
 REFERENCE 10: 135:175356

L92 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 970-73-0 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-,  
 (2R,3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-,  
 (2R-trans)-

CN Gallocatechol (8CI)

OTHER NAMES:

CN (+)-Gallocatechin

CN (+)-Gallocatechol

CN d-Gallocatechin

CN Gallocatechin

FS STEREOSEARCH

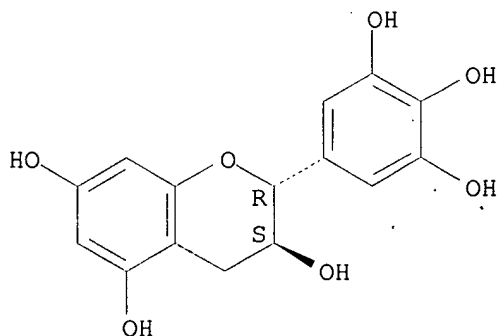
DR 13425-13-3, 528-54-1, 24987-87-9

MF C15 H14 O7

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CAOLD, CAPLUS, CHEMCATS, CHEMINFORMRX, CSCHEM, DDFU,  
 DRUGU, EMBASE, IPA, NAPRALERT, PIRA, TOXLINE, TOXLIT, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



371 REFERENCES IN FILE CA (1967 TO DATE)

10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

372 REFERENCES IN FILE CAPLUS (1967 TO DATE)

5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:194582

REFERENCE 10: 134:331603

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(*File contains numerically searchable property data)
```

Oc1ccc(O)c(Oc2cc(O)c(O)c(OC(=O)c3cc(O)c(O)c(O)c3)c2)c1

14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)



REFERENCE 1: 135:216375  
REFERENCE 2: 135:194940  
REFERENCE 3: 135:140456  
REFERENCE 4: 135:131661  
REFERENCE 5: 135:117184  
REFERENCE 6: 135:97484  
REFERENCE 7: 135:97422  
REFERENCE 8: 135:91654  
REFERENCE 9: 135:86762  
REFERENCE 10: 135:73687

L92 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 490-46-0 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-,  
(2R,3R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-,  
(2R-cis)-

CN Epicatechol, (-)- (8CI)

OTHER NAMES:

CN (-)-(2R:3R)-5,7,3',4'-Tetrahydroxyflavan-3-ol

CN (-)-Epicatechin

CN (-)-Epicatechol

CN (2R,3R)-(-)-Epicatechin

CN epi-Catechin

CN epi-Catechol

CN Epicatechin

CN Epicatechol

CN 1-Acacatechin

CN 1-Epicatechin

CN L-Epicatechin

CN 1-Epicatechol

FS STEREOSEARCH

DR 2545-08-6

MF C15 H14 O6

CI COM

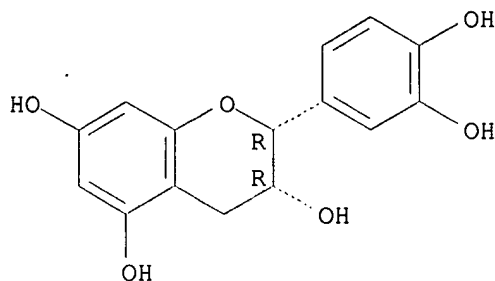
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX,  
CHEMLIST, CSCHM, DDFU, DRUGU, EMBASE, HODOC\*, IFICDB, IFIPAT, IFIUDB,  
IPA, NAPRALERT, PIRA, PROMT, RTECS\*, SPECINFO, TOXLINE, TOXLIT,  
USPATFULL

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



2316 REFERENCES IN FILE CA (1967 TO DATE)

53 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

2325 REFERENCES IN FILE CAPLUS (1967 TO DATE)

11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:210470

REFERENCE 2: 135:210250

REFERENCE 3: 135:210069

REFERENCE 4: 135:209937

REFERENCE 5: 135:207715

REFERENCE 6: 135:200277

REFERENCE 7: 135:194963

REFERENCE 8: 135:194940

REFERENCE 9: 135:194619

REFERENCE 10: 135:194582

L92 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2001 ACS

RN 154-23-4 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-,  
(2R,3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-,  
(2R-trans)-

CN Catechol (8CI)

OTHER NAMES:

CN (+)-(2R:3S)-5,7,3',4'-Tetrahydroxyflavan-3-ol

CN (+)-3',4',5,7-Tetrahydroxy-2,3-trans-flavan-3-ol

CN (+)-Catechin

CN (+)-Catechol

CN (+)-Cianidanol

CN (+)-Cyanidan-3-ol

CN (+)-Cyanidanol

CN (+)-Cyanidanol-3

CN 3-Cyanidanol, (+)-

CN Biocatechin

CN Catechin

CN Catechin (flavan)

CN Catechinic acid

CN Catechol (flavan)

CN Catechuic acid

CN Catergen

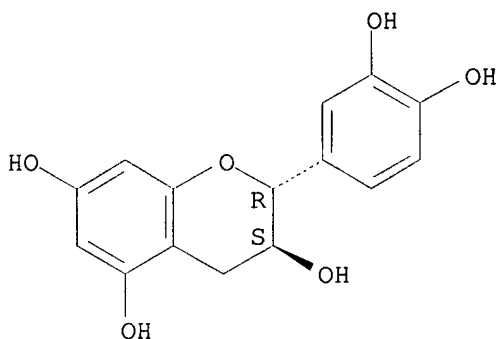
CN Cianidanol

CN Cyanidanol

CN D-(+)-Catechin

CN d-Catechin  
 CN D-Catechin  
 CN D-Catechol  
 CN trans-(+)-3,3',4',5,7-Flavanpentol  
 FS STEREOSEARCH  
 DR 321-01-7, 16198-00-8, 4211-28-3, 5323-80-8, 159761-73-6  
 MF C15 H14 O6  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,  
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU,  
 EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, NAPRALERT,  
 NIOSHTIC, PDLCOM\*, PHAR, PIRA, PROMT, RTECS\*, SPECINFO, TOXLINE, TOXLIT,  
 USAN, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



*claim?*

3473 REFERENCES IN FILE CA (1967 TO DATE)  
 225 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 3479 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:210250  
 REFERENCE 2: 135:210069  
 REFERENCE 3: 135:209937  
 REFERENCE 4: 135:208176  
 REFERENCE 5: 135:207715  
 REFERENCE 6: 135:204842  
 REFERENCE 7: 135:204574  
 REFERENCE 8: 135:201848  
 REFERENCE 9: 135:200277  
 REFERENCE 10: 135:194790

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FILE LAST UPDATED: 30 Sep 2001 (20010930/ED)

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=> d 191 all tot

L91 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 2001:467999 HCAPLUS

DN 135:66050

TI Skin preparations containing **catechins** or **green tea** extracts and ascorbic acid

IN **Schoenrock, Uwe**; Rapp, Claudius; Steinke, Sigrid; Frauen, Markus; Rode, Timo

PA Beiersdorf A.-G., Germany

SO Ger. Offen., 12 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A61K007-00

ICS A61K007-48; A61K035-78

CC 62-4 (Essential Oils and **Cosmetics**)

Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19962369	A1	20010628	DE 1999-19962369	19991223
AB	The invention concerns skin prepn. that contain <b>catechins</b> or <b>green tea</b> exts. and ascorbic acid or its derivs. in order to increase storage stability. Thus an O/W cream contained wt./wt.-%: glyceryl stearate 5.00; cetylalc. 5.00; iso-Pr palmitate 7.00; cyclomethicone 5.00; ascorbic acid 0.30; <b>Camellia sinensis</b> ( <b>green tea</b> ) ext. 0.30; sodium hydroxide (45%) 1.00; butylene glycol 3.00; Na2H2EDTA 0.20; ethanol 2.00; perfume, dyes, preservatives q.s.; water to 100.				
ST	skin prepn <b>green tea</b> ext <b>catechin</b> ascorbate deriv				
IT	<b>Tea products</b> (beverages, <b>green</b> ; skin prepn. contg. catechines or <b>green tea</b> exts. and ascorbic acid)				
IT	<b>Hair preparations</b> (conditioners; skin prepn. contg. catechines or <b>green tea</b> exts. and ascorbic acid)				
IT	<b>Cosmetics</b> (creams; skin prepn. contg. catechines or <b>green tea</b> exts. and ascorbic acid)				
IT	<b>Cosmetics</b> (gels; skin prepn. contg. catechines or <b>green tea</b> exts. and ascorbic acid)				

IT **Cosmetics**  
 (lotions; skin prepsns. contg. catechines or **green tea**  
 exts. and ascorbic acid)

IT **Camellia irrawadiensis**  
**Camellia japonica**  
**Camellia taliensis**  
 Stability  
**Tea (Camellia sinensis)**  
**Tea (Camellia sinensis assamica)**  
 Theales  
 (skin prepsns. contg. catechines or **green tea** exts.  
 and ascorbic acid)

IT 143549-76-2, L-Ascorbyl acetate  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (ascorbyl acetate; skin prepsns. contg. catechines or **green**  
**tea** exts. and ascorbic acid)

IT 50-81-7, L-Ascorbic acid, biological studies 137-66-6, Ascorbylpalmitate  
 154-23-4, (+)-Catechin 490-46-0, (-)-  
**Epicatechin** 970-74-1, (-)-**Epigallocatechin**  
 989-51-5, (-)-**Epigallocatechin Gallate**  
 1257-08-5 4233-96-9, (-)-**Gallocatechin**  
**Gallate** 18829-70-4, (-)-**Catechin**  
 35323-91-2, (+)-**Epicatechin** 108910-78-7, Magnesium  
 ascorbylphosphate 130405-40-2, (-)-**Catechin**  
**Gallate**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (skin prepsns. contg. catechines or **green tea** exts.  
 and ascorbic acid)

RE.CNT 13

RE  
 (1) Anon; JP 07025742 A HCAPLUS  
 (2) Anon; JP 08119849 A HCAPLUS  
 (3) Anon; JP 09309833 A HCAPLUS  
 (4) Anon; DE 19824727 A1 HCAPLUS  
 (5) Anon; DE 19827624 A1 HCAPLUS  
 (6) Anon; DE 19838918 A1 HCAPLUS  
 (7) Anon; US 5780086  
 (8) Anon; US 5962517 HCAPLUS  
 (9) Anon; US 5972999 HCAPLUS  
 (10) Anon; WO 9823152 A1 HCAPLUS  
 (11) Anon; WO 9913859 A1 HCAPLUS  
 (12) Anon; JP 59227243 A 1985  
 (13) Anon; JP 59227244 A 1985

L91 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
 AN 2000:577561 HCAPLUS  
 DN 133:155144  
 TI W/O type **emulsion** cosmetic composition  
 IN Ha, Byung-jo; Kim, Young-dae; Lee, Choong-nam; Cho, Byung-ki; Park, Young  
 Se  
 PA Pacific Co., Ltd., S. Korea  
 SO Repub. Korea, No pp. given  
 CODEN: KRXXFC  
 DT Patent  
 LA Korean  
 IC ICM A61K007-48  
 CC 62-4 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 9602175	B1	19960213	KR 1992-23485	19921207 <--
AB	The cosmetic compn. contains milk, at least one effective component, which is selected from oil-sol. protein, water-sol. protein and water-sol. flavonoid, and 0.01-10 % polyethoxylated vitamin E, which is produced by				

102(b)

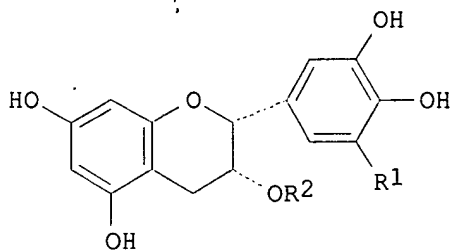
addn., of 2-10 mol ethylene oxide to natural or synthetic vitamin E, with respect to total wt. of the compn. Milk is pasteurized milk, powd. milk, or nonfat dry milk. Water-sol. protein is extd. from mammal's cryst. lens. Water-sol. flavonoid is flavonoid from **green tea**, particularly **epigallocatechin gallate**. W/O **emulsion** is baby oil, massage oil, bath oil, sunscreen oil, baby lotion, etc.

ST cosmetic **emulsion** milk flavonoid ethoxylated vitamin E  
 IT Milk  
     (cosmetic **emulsions** contg. milk and proteins and flavonoids and ethoxylated vitamin E)  
 IT Flavonoids  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (cosmetic **emulsions** contg. milk and proteins and flavonoids and ethoxylated vitamin E)  
 IT **Cosmetics**  
     (**emulsions**; cosmetic **emulsions** contg. milk and proteins and flavonoids and ethoxylated vitamin E)  
 IT Proteins, general, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (from mammal's cryst. lenses; cosmetic **emulsions** contg. milk and proteins and flavonoids and ethoxylated vitamin E)  
 IT **Tea products**  
     (**green**, exts.; cosmetic **emulsions** contg. milk and proteins and flavonoids and ethoxylated vitamin E)  
 IT Eye  
     (lens, proteins from; cosmetic **emulsions** contg. milk and proteins and flavonoids and ethoxylated vitamin E)  
 IT **989-51-5, Epigallocatechin gallate**  
 1406-18-4D, Vitamin E, ethoxylated derivs. 74707-11-2D, derivs.  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (cosmetic **emulsions** contg. milk and proteins and flavonoids and ethoxylated vitamin E)

L91 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
 AN 2000:547325 HCAPLUS  
 DN 133:155131  
 TI Oxidative hair dye composition containing **green tea** polyphenols  
 IN Matravers, Peter; Milius, Ulrich; Cornuelle, Tracy L.  
 PA Aveda Corporation, USA  
 SO U.S., 5 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM A61K007-13  
 NCL 008408000  
 CC 62-3 (Essential Oils and **Cosmetics**)  
 FAN.CNT 1

10265

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6099591	A	20000808	US 1998-15461	19980129 <--
OS	MARPAT 133:155131				
GI					



I

AB A hair coloring compn., and a method for using the compn. in which a natural plant-derived chem. of the formula I is employed as a coupler-modifier in a compn. contg. a primary intermediate and a customary coupler. The novel coupler-modifiers produce a compn. which is more physiol. suitable for use in hair colorings than the prior art compns. and allows for the prepn. of compns. which produce highly stable colorings over a broad range shades and tones. A hair coloring soln. contained **green tea** polyphenols 1.0, p-aminophenol 1.6, resorcinol 1.6, 50% sodium hydroxide 1.2, anhyd. sodium sulfite 0.4, ammonium lauryl sulfate (28% aq. soln.) 10.0, ethanol 10.0, 26% ammonia 10.0 and water 64.2 g. Shortly before application 10 g of this hair coloring compn. is mixed with 10 mL hydrogen peroxide soln. (6%), and the mixt. is allowed to react for 30 min at 30.degree. in blond human hair. The hair is then rinsed with water and dried to obtain a light olive coloration.

ST oxidative hair dye **green tea** polyphenol

IT **Tea products**

(beverages, **green**; oxidative hair dye compn. contg. **green tea** polyphenols)

IT **Hair preparations**

(creams; oxidative hair dye compn. contg. **green tea** polyphenols)

IT **Hair preparations**

(dyes, oxidative; oxidative hair dye compn. contg. **green tea** polyphenols)

IT Coupling agents

(oxidative hair dye compn. contg. **green tea** polyphenols)

IT Phenols, biological studies

RL: BOC (Biological occurrence); BUU (Biological use, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses)  
(polyphenols, nonpolymeric; oxidative hair dye compn. contg. **green tea** polyphenols)

IT 95-70-5, 2,5-Diaminotoluene 106-50-3, 1,4-Diaminobenzene, biological studies 116-85-8, DISPERSE RED 15 123-30-8, p-Aminophenol 128-95-0, 1,4-Diamino-anthraquinone. 490-46-0, **Epicatechin**. 863-03-6, **Epicatechin gallate** 970-74-1

, **Epigallocatechin** 989-51-5, **Epigallocatechin**

**gallate** 2475-45-8, 1,4,5,8-Tetraaminoanthraquinone 2835-95-2, 5-Amino-2-methylphenol 2835-99-6, 3-Methyl-4-amino-phenol 5307-14-2, 2-Nitro 1,4-diaminobenzene 7722-84-1, Hydrogen peroxide, biological studies 26381-41-9 68123-13-7, C.I. 56059 68391-30-0 68391-31-1 73793-80-3, 2,5-Diaminobenzyl alcohol

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(oxidative hair dye compn. contg. **green tea** polyphenols)

RE.CNT 7

RE

- (1) Anon; EP 124393 1994 HCAPLUS
- (2) Anon; JP 09263522 1997 HCAPLUS
- (3) Ehara; US 5131912 1992 HCAPLUS
- (4) Iwabuchi; US 4517175 1985
- (5) Lion Corp; JP 09263522 1997 HCAPLUS

- (6) Parent; US 4013404 1977 HCAPLUS  
 (7) Venkataraman; The Chemistry of Synthetic Dyes 1971, V5, P478

L91 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:388871 HCAPLUS

DN 133:22185

TI Anti-allergy and anti-inflammatory **catechins** from **tea** extracts

IN Tsuji, Akimitsu; Yamamoto, Mari; Kawahara, Kouji; Sano, Mitsuaki; Miyase, Toshio

PA Norinsuisansho Yasai Chagyo Shikenjocho, Japan; Seibutsu Kei Tokutei Sangyo Gijutsu Kenkyu Suishin Kiko; Shizuoka Prefecture

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K031-353

ICS A61K007-50; A61P029-00; A61P037-08; A61K035-78

CC 62-4 (Essential Oils and **Cosmetics**)

Section cross-reference(s): 17, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000159670	A2	20000613	JP 1998-346646	19981120 <--
AB	This invention relates to antiallergy and antiinflammatory agents comprising 3-O-methylgalloylepigallocatechin (I) and/or 4-O-methylgalloylepigallocatechin (II). The agents can be administered topically or orally. I and II were isolated from polyphenol fractions of MeOH exts. of <b>tea</b> leaves. Candies, chewing gums, and bath preps. contg. the invention compds. were formulated.				
ST	antiallergy antiinflammatory <b>epigallocatechin tea</b> ext				
IT	Allergy inhibitors Anti-inflammatory agents <b>Bath preparations</b> Candy Chewing gum <b>Tea (Camellia sinensis)</b> (anti-allergy and anti-inflammatory <b>catechins</b> from <b>tea</b> exts.)				
IT	<b>Drug</b> delivery systems (topical; anti-allergy and anti-inflammatory <b>catechins</b> from <b>tea</b> exts.)				
IT	83104-87-4		224434-07-5		
	RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BUU (Biological use, unclassified); FFD (Food or feed use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (anti-allergy and anti-inflammatory <b>catechins</b> from <b>tea</b> exts.)				

L91 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 1999:811549 HCAPLUS

DN 132:40343

TI Use of cosmetic preparations containing **catechins** or **green tea** extracts for tanning of the skin.

IN Schoenrock, Uwe; Maxt, Heiner

PA Beiersdorf A.-G., Germany

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A61K007-42

CC 62-4 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19827624	A1	19991223	DE 1998-19827624	19980620 <--



WO 9966897 A1 19991229 WO 1999-EP4146 19990616 <--  
W: JP, US  
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE  
EP 1089707 A1 20010411 EP 1999-929230 19990616 <--  
R: DE, ES, FR, GB, IT, SE  
PRAI DE 1998-19827624 A 19980620 <--  
WO 1999-EP4146 W 19990616  
AB Suntanning preps. contg. **catechins** or **green**  
**tea** exts. are described which also protect the skin against UV  
radiation. Thus, a **lotion** contained paraffin oil 20.00,  
petrolatum 4.00, glucose sesquiossearate 2.00, aluminum stearate 0.40,  
.alpha.-Glucosylrutin 0.30, .alpha.-tocopheryl acetate 1.00 glycerin 5.00,  
preservative, dye and perfume qs, **epigallocatechin**  
**gallate** 0.50, and water to 100% by et.  
ST suntanning agent **catechin green tea** ext  
IT **Cosmetics**  
**Sunburn**  
**Sunscreens**  
**Suntanning agents**  
(cosmetic preps. contg. **catechins** or **green**  
**tea** exts. for tanning of skin)  
IT **Tea (Camellia sinensis)**  
(exts.; cosmetic preps. contg. **catechins** or **green**  
**tea** exts. for tanning of skin)  
IT Phenols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyphenols, nonpolymeric; cosmetic preps. contg. **catechins**  
or **green tea** exts. for tanning of skin)  
IT 58-08-2, Caffeine, biological studies 149-91-7D, Gallic acid, esters  
154-23-4, (+)-**Catechin** 490-46-0, (-)-  
**EpiCatechin** 970-74-1, (-)-**EpiGalloCatechin**  
989-51-5, **Epigallocatechin gallate**  
1257-08-5 4233-96-9, (-)-**GalloCatechin**  
**gallate** 18829-70-4, (-)-**Catechin**  
35323-91-2, (+)-**EpiCatechin** 130405-40-2, (-)-  
**Catechin gallate**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(cosmetic preps. contg. **catechins** or **green**  
**tea** exts. for tanning of skin)  
RE.CNT 5  
RE  
(1) Anon; JP 09194493 A HCAPLUS  
(2) Anon; US 4981485 HCAPLUS  
(3) Anon; 1968 HCAPLUS  
(4) Anon; 1997 HCAPLUS  
(5) Anon; 1997 HCAPLUS  
L91 ANSWER 6 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
AN 1999:783898 HCAPLUS  
DN 132:26670  
TI Cosmetic or dermatologic preparations containing **catechins** or  
**green tea** extract.  
IN **Schreiner, Volker; Schoenrock, Uwe; Staeb,**  
**Franz; Max, Heiner; Sandhoff, Konrad;**  
**Doering, Thomas**  
PA Beiersdorf A.-G., Germany  
SO PCT Int. Appl., 27 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
IC ICM A61K007-48  
CC 62-4 (Essential Oils and **Cosmetics**)  
Section cross-reference(s): 63

FAN.CNT 1..

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9962478	A1	19991209	WO 1999-EP3777	19990601 <--
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 19824727	A1	19991209	DE 1998-19824727	19980603 <--
	EP 1082100	A1	20010314	EP 1999-926491	19990601 <--
	R: DE, ES, FR, GB, IT, SE				
PRAI	DE 1998-19824727	A	19980603 <--		
	WO 1999-EP3777	W	19990601		
AB	<b>Catechins</b> , gallic acid esters of <b>catechins</b> , or aq. or org. exts. from plants or plant parts which contain <b>catechins</b> or gallic acid esters of <b>catechins</b> [e.g. leaves of <b>Theaceae</b> and esp. of <b>Camellia sinensis</b> ( <b>green tea</b> )] or typical constituents thereof (e.g. polyphenols, <b>catechins</b> , caffeine, vitamins, sugar, minerals, amino acids, lipids) are useful for the prophylaxis, treatment, and/or care of dry skin conditions. These exts. and constituents markedly stimulate the formation of ceramides and sphingolipids in the skin and reinforce the lipid barrier. Thus, a water-in-oil skin <b>cream</b> contained Vaseline 13.0, glycerin 6.30, paraffin oil 40.80, Eutanol G (cetostearyl alc. + ethoxylated castor oil + Na cetostearyl sulfate) 2.50, <b>green tea</b> ext. 3.00, perfume, preservative, dye, and H2O to 100.00 wt.%.				
ST	dry skin treatment <b>tea catechin</b> ; gallate				
IT	<b>catechin</b> dry skin treatment				
IT	<b>Tea products</b> (cosmetic or dermatol. preps. contg. <b>catechins</b> or <b>green tea</b> ext.)				
IT	Amino acids, biological studies Carbohydrates, biological studies Flavanols Lipids, biological studies Mineral elements, biological studies Vitamins RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cosmetic or dermatol. preps. contg. <b>catechins</b> or <b>green tea</b> ext.)				
IT	<b>Sphingolipids</b> RL: BPR (Biological process); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process) (cosmetic or dermatol. preps. contg. <b>catechins</b> or <b>green tea</b> ext.)				
IT	<b>Skin, disease</b> (dry; cosmetic or dermatol. preps. contg. <b>catechins</b> or <b>green tea</b> ext.)				
IT	<b>Leaf</b> Plant (Embryophyta) <b>Tea (Camellia sinensis)</b> <b>Theaceae</b> (exts.; cosmetic or dermatol. preps. contg. <b>catechins</b> or <b>green tea</b> ext.)				
IT	<b>Cosmetics</b> (moisturizers; cosmetic or dermatol. preps. contg. <b>catechins</b> or <b>green tea</b> ext.)				
IT	<b>Phenols, biological studies</b> RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (polyphenols, nonpolymeric; cosmetic or dermatol. preps. contg. <b>catechins</b> or <b>green tea</b> ext.)				
IT	58-08-2, Caffeine, biological studies 149-91-7D, Gallic acid, esters with flavanols 154-23-4, (+)- <b>Catechin</b> 490-46-0				

, (-)-**Epicatechin** 970-74-1, (-)-  
**Epigallocatechin** 989-51-5, (-)-**Epigallocatechin**  
**gallate** 1257-08-5 4233-96-9, (-)-  
**Gallocatechin gallate** 18829-70-4, (-)-  
**Catechin** 35323-91-2, (+)-**Epicatechin**  
**130405-40-2**, (-)-**Catechin gallate**

RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(cosmetic or dermatol. prepns. contg. **catechins** or **green tea** ext.)

RE.CNT 4

- RE
- (1) E-L Management Corporation; WO 9810739 A 1998 HCAPLUS
  - (2) E-L Management Corporation; WO 9810739 A 1998 HCAPLUS
  - (3) Vitasyn GMBH Entwicklung & Vertrieb Pharmazeutischer Produkte; DE 19627344 A 1998 HCAPLUS
  - (4) Vitasyn GMBH Entwicklung & Vertrieb Pharmazeutischer Produkte; DE 19627344 A 1998 HCAPLUS

L91 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 1999:449010 HCAPLUS

DN 131:120607

TI Light- and heat-stable compositions containing **tea** polyphenols  
 IN Takagaki, Akiko; Mori, Masao; Fukai, Katsuhiko; Nanjo, Fumio; Hara, Masahiko

PA Mitsui Norin Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-075

ICS A61K007-50; C11D001-74; C11D003-382; A61K007-16

CC 62-4 (Essential Oils and **Cosmetics**)

Section cross-reference(s): 11

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11193221	A2	19990721	JP 1997-366875	19971226 <--
OS	MARPAT 131:120607				
AB	Light- and heat-stable compns. [e.g. shampoos] contain <b>tea</b> polyphenols selected from [+-] <b>-catechin</b> , [+-] <b>-catechin</b> , [+-] <b>-gallocatechin</b> , [+-] <b>-epicatechin</b> , [+-] <b>-gallocatechin gallate</b> , [+-] <b>-epigallocatechin gallate</b> , [+-] <b>-epicatechin</b> , [+-] <b>-epicatechin gallate</b> , [+-] <b>-catechin gallate</b> , [+-] <b>-epigallocatechin</b> , [+-] <b>-gallocatechin</b> , [+-] <b>-epigallocatechin gallate</b> , [+-] <b>-gallocatechin gallate</b> , theaflavin monogallate A, theaflavin monogallate B, theaflavin digallate and theaflavin. A shampoo contained Polyphenone 60 [contg. 60 % polyphenols] 0.1, phasphanol ML-220 5, sodium benzoate 0.1 and other ingredients and purified water to 100 wt./wt. %.				
ST	shampoo <b>tea</b> polyphenol stability				
IT	<b>Shampoos</b> (light- and heat-stable compns. contg. <b>tea</b> polyphenols)				
IT	Flavonoids RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (light- and heat-stable compns. contg. <b>tea</b> polyphenols)				
IT	Phenols, biological studies RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (polyphenols, nonpolymeric, <b>tea</b> ; light- and heat-stable compns. contg. <b>tea</b> polyphenols)				
IT	120-80-9, [+-] <b>-Catechin</b> , biological studies 154-23-4, [+-] <b>-Catechin</b> 490-46-0, [+-] <b>-Epicatechin</b> 863-03-6, [+-] <b>-Epicatechin gallate</b>				

970-73-0, [+-]Gallocatechin 970-74-1, [-]-  
**Epigallocatechin** 989-51-5, [-]-**Epigallocatechin**  
**gallate** 4233-96-9, (-)-**Gallocatechin**  
**gallate** 4670-05-7, Theaflavin 5127-64-0 28543-07-9,  
 Theaflavin monogallate B 30462-34-1, Theaflavin monogallate A  
 33377-72-9, Theaflavin digallate 101840-48-6, **Catechin**  
**gallate** 136892-45-0, (+)-**Epigallocatechin**  
**137766-94-0, (+)-Epigallocatechin gallate**  
 RL: BUU (Biological use, unclassified); PEP (Physical, engineering or  
 chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
 (light- and heat-stable compns. contg. **tea** polyphenols)

L91 ANSWER 8 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 1999:331518 HCAPLUS

DN 131:20578

TI **Catechin**-containing soaps

IN Takada, Ayako

PA Amure K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C11D009-26

ICS C11D009-50

CC 46-2 (Surface Active Agents and Detergents)

Section cross-reference(s): 1, 62, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11140497	A2	19990525	JP 1997-316287	19971031 <--
AB	Soaps contg. <b>catechins</b> derived from <b>green tea</b> have bactericidal and deodorizing properties. Thus, 17.7% coconut oil and 65.8% tallow were heated, saponified with 14.0% NaOH, and salted-out with 2.0% NaCl to give a neat soap, which was mixed with 0.5% <b>catechin</b> , aged in a mold, and cut to give a product showing good effect such as prevention of acne, atopic dermatitis, body smell, etc.				
ST	<b>catechin</b> blend soap antibacterial; deodorizing soap <b>catechin</b> blend; atopic dermatitis soap <b>catechin</b> blend				
IT	<b>Dermatitis</b> (atopic; <b>catechin</b> -contg. soaps having bactericidal and deodorizing properties)				
IT	<b>Acne</b> Antibacterial agents Deodorants ( <b>catechin</b> -contg. soaps having bactericidal and deodorizing properties)				
IT	<b>Soaps</b> RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) ( <b>catechin</b> -contg. soaps having bactericidal and deodorizing properties)				
IT	Flavanols RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) ( <b>catechin</b> -contg. soaps having bactericidal and deodorizing properties)				
IT	<b>Cosmetics</b> (cleansing; <b>catechin</b> -contg. soaps having bactericidal and deodorizing properties)				
IT	Fatty acids, preparation RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (coco, sodium salts; <b>catechin</b> -contg. soaps having bactericidal and deodorizing properties)				

IT Fatty acids, preparation  
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(tallow, sodium salts; **catechin**-contg. soaps having bactericidal and deodorizing properties)

L91 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
AN 1998:51822 HCAPLUS  
DN 128:97452  
TI Anti-inflammatory effect of oolong tea polyphenols  
AU Nakazato, Kenichi; Takeo, Tadakazu  
CS Cent. Res. Inst., Ito-en Ltd., Shizuoka, 421-05, Japan  
SO Nippon Nogei Kagaku Kaishi (1998), 72(1), 51-54  
CODEN: NNKKAA; ISSN: 0002-1407  
PB Nippon Nogei Kagakkai  
DT Journal  
LA Japanese  
CC 1-7 (Pharmacology)  
AB The anti-inflammatory activity of aq. oolong tea ext. was tested. The formation of edema caused in rats paws by injection of carrageenin was effectively depressed by soaking the rat paws in hot oolong tea ext. It gives 60% inhibition at the dose of 75 ppm of oolong tea ext. Oolong tea ext. showed higher antiinflammatory activity than those of green and black tea exts. The active components were found to be catechins and oolong tea tannin (oxidative products of catechin in oolong tea) fractionated from aq. oolong tea ext. By oral administration of oolong tea ext., carrageenin-induced inflammation was also inhibited, but the anti-inflammatory activity by oral administration was lower than by the soaking treatment. The inflammatory activity of percutaneous absorbed oolong tea polyphenols was assumed to be due, at least partly, to the inhibition of prostaglandin biosynthesis in rat tissue injected with carrageenin.

ST oolong tea ext antiinflammatory catechin tannin  
IT Anti-inflammatory drugs  
(anti-inflammatory effect of oolong tea polyphenols)  
IT Phenols, biological studies  
Polyphenols (nonpolymeric)  
Tannins  
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)  
(anti-inflammatory effect of oolong tea polyphenols)

IT Skin diseases  
(edema; anti-inflammatory effect of oolong tea polyphenols)

IT Tea products  
(leaves, oolong, exts.; anti-inflammatory effect of oolong tea polyphenols)

IT Edema  
(skin; anti-inflammatory effect of oolong tea polyphenols)

IT 490-46-0, Epicatechin 863-03-6,  
Epicatechin gallate 970-74-1,  
Epigallocatechin 989-51-5, Epigallocatechin gallate  
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)  
(anti-inflammatory effect of oolong tea polyphenols)

L91 ANSWER 10 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
AN 1996:656422 HCAPLUS  
DN 125:284345  
TI Hair growth inhibitors comprising a catechin compound  
IN Ahluwalia, Gurpreet S.  
PA Handelmann, Joseph H., USA  
SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A61K007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9626705	A1	19960906	WO 1996-US2791	19960227 <--
	W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI			
	RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML			
	US 5674477	A	19971007	US 1995-396426	19950228 <--
	CA 2213411	AA	19960906	CA 1996-2213411	19960227 <--
	AU 9651781	A1	19960918	AU 1996-51781	19960227 <--
	AU 720440	B2	20000601		
	EP 814754	A1	19980107	EP 1996-908589	19960227 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE			
	BR 9607061	A	19981215	BR 1996-7061	19960227 <--
	JP 11501036	T2	19990126	JP 1996-526416	19960227 <--
	ZA 9601599	A	19960905	ZA 1996-1599	19960228 <--
	US 5776442	A	19980707	US 1997-893319	19970716 <--
PRAI	US 1995-396426	A	19950228 <--		
	WO 1996-US2791	W	19960227 <--		
AB	Mammalian hair growth is reduced by applying to the skin a dermatol. acceptable compn. including a <b>catechin</b> compd. A mixt. of <b>catechins</b> extd. from <b>tea</b> leaves contained <b>epigallocatechin 4.6, epigallocatechin gallate 69.6, epicatechin 6.7, and epicatechin gallate 19.1%</b> . Daily application of the mixt. in a vehicle comprising water 68, ethanol 16, propylene glycol 5, dipropylene glycol 5, benzyl alc. 4, and propylene carbonate 2% to hamster skin, decreased the hair growth by 91% after 13 application.				
ST	hair growth inhibitor <b>catechin tea</b> leave				
IT	Hirsutism (hair growth inhibitors comprising a <b>catechin</b> compd.)				
IT	Tannins RL: BOC (Biological occurrence); BUU (Biological use, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (hair growth inhibitors comprising a <b>catechin</b> compd.)				
IT	<b>Hair preparations</b> (growth inhibitors, hair growth inhibitors comprising a <b>catechin</b> compd.)				
IT	<b>Tea products</b> (leaves, hair growth inhibitors comprising a <b>catechin</b> compd.)				
IT	<b>154-23-4D, Catechin, oligomers and oxidative dimers 490-46-0, Epicatechin 863-03-6, Epicatechin gallate 970-74-1, Epigallocatechin 989-51-5, Epigallocatechin gallate</b> RL: BOC (Biological occurrence); BUU (Biological use, unclassified); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (hair growth inhibitors comprising a <b>catechin</b> compd.)				
IT	<b>970-73-0, Gallocatechin 2545-00-8, Afzelechin</b> RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (hair growth inhibitors comprising a <b>catechin</b> compd.)				

L91 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 1996:264974 HCAPLUS

DN 124:298912

TI Woolong **tea** extracts containing tannins for treatment of steroid-induced skin diseases

Asthma  
 Environment  
   **Pharmaceutical** dosage forms  
   **Tea products**  
     (prepn. of antiallergen formulations for removal of environmental allergens)

IT Allergens  
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
   (prepn. of antiallergen formulations for removal of environmental allergens)

IT **Dermatitis**  
   (allergic, prepn. of antiallergen formulations for removal of environmental allergens)

IT 149-91-7, Gallic acid, biological studies 149-91-7D, Gallic acid, alc. esters **490-46-0, Epicatechin 863-03-6, Epicatechin gallate 970-74-1, Epigallocatechin 989-51-5, Epigallocatechin gallate 1306-06-5, Hydroxyapatite**  
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
   (prepn. of antiallergen formulations for removal of environmental allergens)

L91 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
 AN **1994:417750** HCAPLUS  
 DN **121:17750**  
 TI Tyrosinase inhibitors for cosmetics  
 IN Hara, Masahiko; Pponda, Yoshikazu  
 PA Mitsui Norin Kk, Japan  
 SO Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A61K035-78  
   ICS A61K007-00; A61K031-35  
 ICA C07D311-62  
 CC 62-4 (Essential Oils and **Cosmetics**)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	<del>JP</del> <b>JP 06065085</b>	A2	19940308	JP 1992-244001	19920821 <--
AB	Tyrosinase inhibitors, useful for skin-lightening preps., contain <b>tea</b> polyphenols as active ingredients. <b>Epicatechin gallate</b> and <b>epigallocatechin gallate</b> strongly inhibited tyrosinase.				
ST	cosmetic tyrosinase inhibitor polyphenol <b>tea</b> ; skin lightening tyrosinase inhibitor polyphenol				
IT	Melanins RL: FORM (Formation, nonpreparative) (formation of, inhibition of, by polyphenols of <b>tea</b> , as tyrosinase inhibitors)				
IT	<b>Tea (Camellia sinensis)</b> (polyphenols of, as tyrosinase inhibitors, for skin lightening preps.)				
IT	Phenols, biological studies RL: PREP (Preparation) (polyhydric, of <b>tea</b> , as tyrosinase inhibitors, for skin lightening preps.)				
IT	<b>Cosmetics</b> (skin-lightening, contg. polyphenols, of <b>tea</b> , as tyrosinase inhibitors)				
IT	9002-10-2, Tyrosinase RL: BIOL (Biological study) (inhibitors for, polyphenols as, of <b>tea</b> , for skin lightening preps.)				
IT	<b>490-46-0, Epicatechin 863-03-6, Epicatechin gallate 970-74-1,</b>				

IN Nakazato, Kenichi; Takeo, Chuichi; Kawasaki, Toshio; Fukui, Yasuhiko;  
 Fukui, Kazuhiko  
 PA Itoen Kk, Japan  
 SO Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A61K035-78  
 ICA C07G017-00  
 CC 63-4 (Pharmaceuticals)

Section cross-reference(s): 1, 11, 62

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08003053	A2	19960109	JP 1994-134675	19940616 <--
AB	Woolong tannins extd. from oolong <b>tea</b> , semifermented oolong <b>tea</b> , or fermented oolong <b>tea</b> are useful for the treatment of skin diseases complicated by steroid treatment. The tannins comprise flavan-3-ol compds. such as <b>catechin</b> , <b>epicatechin</b> , <b>epicatechin gallate</b> , and <b>epigallocatechin gallate</b> . The tannin exts. can be incorporated into bath preps. Effectiveness was clin. tested.				
ST	oolong <b>tea</b> tannin steroid skin disease				
IT	Tannins RL: PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (oolong <b>tea</b> exts. contg. tannins for treatment of steroid-induced skin diseases)				
IT	<b>Tea products</b> (oolong; oolong <b>tea</b> exts. contg. tannins for treatment of steroid-induced skin diseases)				
IT	<b>Skin, disease</b> (steroid-induced; oolong <b>tea</b> exts. contg. tannins for treatment of steroid-induced skin diseases)				
IT	Steroids, biological studies RL: PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (steroid-induced; oolong <b>tea</b> exts. contg. tannins for treatment of steroid-induced skin diseases)				
IT	120-80-9P, <b>Catechin</b> , biological studies 490-46-0P, <b>Epicatechin</b> 863-03-6P, <b>Epicatechin gallate</b> 989-51-5P, <b>Epigallocatechin gallate</b> 1481-83-0P, Flavan-3-ol RL: PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (oolong <b>tea</b> exts. contg. tannins for treatment of steroid-induced skin diseases)				

L91 ANSWER 12 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 1995:610763 HCAPLUS

DN 123:17499

TI Extracting flavonoids and **catechins** from mate **tea** leaves for use as antioxidants and active agents in cosmetics

IN Kurose, Senshiro; Matsumura, Takashi

PA ENB - Extratos Naturais do Brasil Ind. e Com. S/A, Brazil

SO Braz. Pedido PI, 18 pp.

CODEN: BPXXDX

DT Patent

LA Portuguese

IC ICM A61K007-48

ICS A61K031-35; C07G013-00

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI BR 9303217 A 19950301 BR 1993-3217 19930730 <--  
 AB **Catechins** and polymd. **catechins** can be extd. from the flavonoids present in the leaves of mate **tea** (*Ilex paraguariensis*) which are suitable for use as antioxidants and physiol. active agents in cosmetics. Aq. exts. of mate contain mainly **catechin** with secondary amts. of **epigallocatechin**, **gallocatechin**, and **epicatechin**. Ethanolic exts. of mate contain mainly **epigallocatechin**, with secondary amts. of **gallocatechin**, **catechin**, and **epicatechin**. Among the activities these compds. may have in cosmetic formulations are antioxidant, improvement of circulation, UV interception, tyrosinase inhibition, astringent, anti-inflammatory, skin-softening, skin-moisturizing, emollient, and bacteriostatic.

ST cosmetic antioxidant **catechin** mate ext  
 IT Antioxidants  
     **Cosmetics**  
     Leaf  
     Mate  
         (extg. flavonoids and **catechins** from mate **tea** leaves for use as antioxidants and active agents in cosmetics)

IT Flavanols  
 Phenols, biological studies  
 Tannins  
 RL: BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
     (extg. flavonoids and **catechins** from mate **tea** leaves for use as antioxidants and active agents in cosmetics)

IT **154-23-4P, Catechin 490-46-0P, Epicatechin 577-85-5P, Flavonol 970-73-0P, Gallocatechin 970-74-1P, Epigallocatechin**  
 RL: BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
     (extg. flavonoids and **catechins** from mate **tea** leaves for use as antioxidants and active agents in cosmetics)

L91 ANSWER 13 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
 AN 1995:267327 HCAPLUS  
 DN 122:38824  
 TI Preparation of antiallergen formulations for removal of environmental allergens  
 IN Miura, Takao; Yoshikawa, Ayumi; Hironaka, Yutaka  
 PA Earth Chemical Co, Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
     CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A61K031-19  
     ICS A61K031-235; A61K031-35; A61K031-70; A61K033-42; A61K035-78  
 CC 63-5 (**Pharmaceuticals**)  
     Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06279273	A2	19941004	JP 1993-108704	19930330 <--
AB	The antiallergen formulations for removal of environmental allergens are prepd. by 0.1-10 wt. % <b>tea</b> exts, hydroxyapatite, <b>epicatechin</b> , <b>epigallocatechin</b> , <b>epicatechin gallate</b> , <b>epigallocatechin gallate</b> , gallic acid and esters of gallic acid and alcs.(C1-4). The formulations, including liqs. sprays, <b>emulsions</b> , powders, granules, etc., are effective to remove environmental allergens e.g. from pollens, <i>Dermatophagoides</i> species, etc., which cause allergic dermatitis and asthma in children.				
ST	antiallergen formulation environmental allergen dermatitis asthma				
IT	Allergy inhibitors				

**Epigallocatechin 989-51-5, Epigallocatechin gallate**

RL: BIOL (Biological study)

(tyrosinase inhibitor, for skin lightening preps.)

L91 ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 1992:136230 HCAPLUS

DN 116:136230

TI Polyphenols of **tea** extracts for treatment of skin disorders caused by Trichophyton

IN Shimamura, Tadakatsu

PA Mitsui Norin Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K035-78

ICS A61K031-35

CC 63-4 (Pharmaceuticals)

Section cross-reference(s): 5, 11

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03255033	A2	19911113	JP 1990-47205	19900301 <--
	JP 3019996	B2	20000315		
	US 5135957	A	19920804	US 1990-533463	19900605 <--
	CA 2018388	AA	19910901	CA 1990-2018388	19900606 <--
	AU 9056827	A1	19910905	AU 1990-56827	19900606 <--
	AU 617252	B2	19911121		
PRAI	JP 1990-47205	A	19900301		<--

AB A pharmaceutical for treatment of skin disorders (e.g. Athlete's foot) caused by Trichophyton contains a **tea** ext. having polyphenols as active agents. The polyphenols include **catechins** and isomers. Thus, Ceylon **tea** was extd. with a phosphate buffer, and the inhibitory activity of the ext. on T. mentagrophytes was demonstrated in vitro.

ST **tea** polyphenol skin TrichophytonIT **Tea products**

(exts. of, polyphenols as, for Trichophyton infection control)

IT Trichophyton mentagrophytes

Trichophyton rubrum

(skin infection with, polyphenols of **tea** ext. effect on)IT **Skin, disease**(infection, from Trichophyton, **tea** ext. for treatment of)IT **989-51-5, Epigallocatechin gallate**

137893-14-2

RL: BIOL (Biological study)

(Trichophyton infection control by)

L91 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 2001 ACS

AN 1991:648130 HCAPLUS

DN 115:248130

TI Flavonoids for protection of cells against chemically active species of oxygen, their extraction from plants, and their use in cosmetics

IN Park, Soo Nam; Boo, Yong Chool

PA Pacific Chemical Co., Ltd., S. Korea

SO Fr. Demande, 17 pp.

CODEN: FRXXBL

DT Patent

LA French

IC ICM A61K035-78

ICS A61K031-35

CC 1-12 (Pharmacology)

Section cross-reference(s): 11, 62, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	FR 2651132	A1	19910301	FR 1990-935	19900126 <--
	FR 2651132	B1	19930108		
	KR 9707186	B1	19970507	KR 1989-12435	19890820 <--
	JP 03093782	A2	19910418	JP 1990-16320	19900129 <--
	JP 07103025	B4	19951108		
PRAI	KR 1989-12435	A	19890830	<--	
	KR 1989-12492	A	19890831	<--	
	KR 1989-12493	A	19890831	<--	

AB Flavonoids are extd. from plants for use as agents to protect cells against chem. active species of O. Cosmetic compns. contain these protective agents. (-)-**Epigallocatechin gallate** (I) was prepd. by extn. from dry leaves of **Camellia sinensis** L. Galangin was extd. from dry alpinia officinarum Hance roots. In a photohemolysis assay, a 1:1 mixt. of I and galangin gave a half-hemolysis time of >2000 min (compared with 32 min for controls). Each, alone, gave values of 400 and 1800, resp.

ST cell protection oxygen flavonoid plant; cosmetic flavonoid cell protection oxygen; **epigallocatechin gallate** Camellia cell oxygen; galangin Alpinia cell protection oxygen

IT Scutellaria baicalensis  
(baicalein of root of, for protection of cells against chem. active forms of oxygen)

IT Flavonoids  
RL: BIOL (Biological study)  
(cells protection with, from chem. active forms of oxygen)

IT **Cosmetics**  
(contg. plant flavonoids for protection of cells against chem. active forms of oxygen)

IT **Tea (Camellia sinensis)**  
(**epigallocatechin gallate** of, for protection of cells against chem. active forms of oxygen)

IT Leaf  
(**epigallocatechin gallate** of, of **Camellia sinensis**, for protection of cells against chem. active forms of oxygen)

IT Citrus tangerina  
Tanaka  
(flavonoid of fruit rind of, for protection of cells against chem. active species of oxygen)

IT Acacia catechu  
Ginkgo biloba  
(flavonoid of leaves of, for protection of cells against chem. active species of oxygen)

IT Alpinia officinarum  
(galangin of root of, for protection of cells against chem. active forms of oxygen)

IT Root  
(galangin of, of Alpinia officinarum, for protection of cells against chem. active forms of oxygen)

IT Cell  
(protection of, against chem. active forms of oxygen, plant flavonoids for)

IT Plant tissue  
(rind, flavonoid of, of Citrus tangerina, for protection of cells against chem. active species of oxygen)

IT 491-67-8, Baicalein 548-83-4, Galangin **989-51-5**  
**137425-06-0 137425-07-1**  
RL: BIOL (Biological study)  
(cells protection with, from chem. active forms of oxygen)

IT 117-39-5, Quercetin 153-18-4, Rutin **154-23-4**, (+)-**Catechin** 480-16-0, Morin 480-18-2, Taxifolin 480-20-6, Aromadendrin 480-40-0, Chrysin 480-44-4, Acacetin **490-46-0**, (-)-**Epicatechin** 520-18-3, Kaempferol 520-36-5, Apigenin 525-82-6, Flavone 528-48-3, Fisetin 529-44-2, Myricetin 577-85-5, 3-Hydroxyflavone 604-59-1, 7,8-Benzoflavone 4382-33-6,

Dihydrorobinetin 21967-41-9, Baicalin 22888-70-6, Silybin  
 RL: BIOL (Biological study)  
 (chem. active oxygen species effect on cells response to)  
 IT 7782-44-7D, Oxygen, chem.-active forms  
 RL: BIOL (Biological study)  
 (flavonoids from plants for protection of cells against)

L91 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
 AN 1989:211301 HCAPLUS  
 DN 110:211301  
 TI Antioxidant compositions containing aliphatic hydroxycarboxylic acids and  
**tea** extracts for foods, cosmetics, and pharmaceuticals  
 IN Iwai, Yoshio; Sano, Takafumi; Kashimata, Misao; Kaneoka, Mitsuo  
 PA Sankyo Co., Ltd., Japan; Fuji Seito Co., Ltd.  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C09K015-34  
 ICS A23L003-34; C09K015-06  
 CC 17-6 (Food and Feed Chemistry)  
 Section cross-reference(s): 62, 63  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63135484	A2	19880607	JP 1986-280986	19861126 <--
	JP 03055518	B4	19910823		

AB An antioxidant compn. comprising **tea** exts. and .gtoreq.1 aliph.  
 hydroxycarboxylic acids for foods, cosmetics, and pharmaceuticals is  
 described. Waste **tea** leaves 30 kg were extd. with MeOH, and the  
 MeOH ext. was distd., concd., and dried under reduced pressure to obtain  
 4.5 kg water-sol. **tea** ext. The **tea** ext. with the  
 addn. of aliph. polyvalent carboxylic acids gave a peroxide value of 30-54  
 mequiv/kg compared to a control of 76-150 mequiv/kg.

ST antioxidant food pharmaceutical; carboxylic acid hydroxy **tea** ext  
 antioxidant

IT **Tea products**  
 (exts., antioxidant compn. contg. hydroxy carboxylic acid and)

IT Antioxidants  
 (**tea** exts. and aliph. polyvalent hydroxy carboxylic acids in)

IT Carboxylic acids, biological studies  
 RL: BIOL (Biological study)  
 (aliph., hydroxy, antioxidant compn. contg. **tea** ext. and,  
 enhancement in relation to)

IT 77-92-9, Citric acid, biological studies 87-69-4, Tartaric acid,  
 biological studies 6915-15-7, Malic acid  
 RL: BIOL (Biological study)  
 (antioxidant compn. contg. **tea** exts. and, enhanced activity  
 in relation to)

IT 50-81-7, Ascorbic acid, biological studies 58-08-2, Caffeine, biological  
 studies 863-03-6, **Epicatechin gallate**  
 970-74-1, **Epigallocatechin** 989-51-5,  
**Epigallocatechin gallate**  
 RL: BIOL (Biological study)  
 (antioxidant compns. contg. **tea** ext. and, aliph.  
 hydroxycarboxylate in relation to)

L91 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
 AN 1985:137589 HCAPLUS  
 DN 102:137589  
 TI Cosmetics containing **catechin** compounds  
 PA Osaka Yakuin Kenkyusho K. K., Japan  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese

IC ICM A61K007-00  
ICS A61K035-78; C11D003-20  
ICA A61K031-35  
CC 62-4 (Essential Oils and Cosmetics)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59216810	A2	19841206	JP 1983-91934	19830524 <--
	JP 05020405	B4	19930319		
AB	Cosmetics contain <b>catechin</b> [154-23-4] and <b>epigallocatechin</b> [970-74-1] which are antioxidants and used as preservatives. A tannin fraction contg. <b>catechin</b> derivs. is isolated from dried leaves of <i>Uncaria gambir</i> . A skin <b>lotion</b> comprises glycerin 5, propylene glycol 4, oleyl alc. 0.1, <b>emulsifier</b> 2, EtOH 10, perfume 0.2, the tannin ext. 0.05, and H2O to 100% by wt.				
ST	<b>catechin</b> compd cosmetic; tannin <b>catechin</b> cosmetic; antioxidant <b>catechin</b> cosmetic				
IT	<b>Cosmetics</b> (antioxidants for, <b>catechin</b> derivs. as)				
IT	Antioxidants ( <b>catechin</b> derivs., cosmetics contg.)				
IT	Tannins RL: BIOL (Biological study) (of <i>Uncaria gambir</i> , as antioxidants, cosmetics contg.)				
IT	<b>Tea</b> <i>Uncaria gambier</i> (tannins of, as antioxidants, cosmetics contg.)				
IT	<b>154-23-4 490-46-0 863-03-6 970-74-1</b> RL: BIOL (Biological study) (cosmetics contg., as antioxidant)				

L91 ANSWER 19 OF 19 HCAPLUS COPYRIGHT 2001 ACS  
AN 1984:437394 HCAPLUS  
DN 101:37394  
TI **Tea** extracts as antioxidants  
PA Zaidan Hojin Kyaiku Bunka Kenkyusho, Japan  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC C09K015-08; A23L003-34; A61K007-00; A61K035-78  
CC 17-6 (Food and Feed Chemistry)  
Section cross-reference(s): 62, 63

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59045385	A2	19840314	JP 1982-157648	19820909 <--
AB	A <b>tea</b> ext. fraction contg. mainly <b>epicatechin</b> [490-46-0], <b>epigallocatechin</b> [970-74-1], <b>epicatechin gallate</b> [863-03-6], and(or) <b>epigallocatechin gallate</b> [989-51-5] is an antioxidant for foods, medicines, and cosmetics.				
ST	<b>tea</b> ext antioxidant compn				
IT	<b>Cosmetics</b> Food <b>Pharmaceuticals</b> (antioxidants from <b>tea</b> exts. for)				
IT	<b>Tea</b> (ext., antioxidant compds. of, uses of)				
IT	Antioxidants (of <b>tea</b> ext., uses of)				
IT	<b>490-46-0 863-03-6 970-74-1 989-51-5</b> RL: BIOL (Biological study) (of <b>tea</b> ext., antioxidant properties and uses of)				

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L112 ANSWER 1 OF 3 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD

AN 2001-433940 [47] WPIX

DNC C2001-131365

TI Composition of ascorbyl compound and **catechin**, or extract  
containing it, useful for improving barrier properties of skin.

DC B05 D21 E19

IN FRAUEN, M; RAPP, C; RODE, T; **SCHOENROCK**, U; STEINKE, S

PA (BEIE) BEIERSDORF AG

CYC 1

PI DE 19962369 A1 20010628 (200147)\* 11p A61K007-00

ADT DE 19962369 A1 DE 1999-19962369 19991223

PRAI DE 1999-19962369 19991223

IC ICM A61K007-00

ICS A61K007-48; A61K035-78

AB DE 19962369 A UPAB: 20010822

NOVELTY - Active ingredient composition (A) comprises (i) an extract of a plant of the order Theales and/or **catechins** (I) and/or (I) gallate esters and (ii) at least one ascorbyl compound (II), preferably water soluble.

DETAILED DESCRIPTION - The extract is particularly derived from a plant of the family Theaceae, especially the tea plants *Camellia sinensis*, *C. assamica*, *C. taliensis*, *C. irrawadiensis* or their hybrids with e.g. *C. japonica*.

ACTIVITY - Dermatological.

MECHANISM OF ACTION - (A) improves, or restores, the barrier function and hydration of the stratum corneum, in particular the physico-chemical properties of the lamellae of intracellular lipids.

USE - (A) is used in cosmetic and dermatological compositions, particularly those in which (i) is a **catechin**-containing plant extract (specifically of green tea). The compositions are used for care and protection of the skin, especially sensitive, dry, aged or otherwise altered skin, e.g. protection against toxic and allergic reactions, sun, wind, ageing etc.

ADVANTAGE - (II) act as stabilizers for (I), which normally have very poor storage stability. (A) improves, or restores, the barrier function and hydration of the stratum corneum, in particular the physico-chemical properties of the lamellae of intracellular lipids.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B03-F; B04-A08; B04-A10; B06-A01; B10-C03; B14-G02A; B14-N17;  
B14-R01; D08-B09A; E06-A01; E07-A02B

TECH UPTX: 20010822

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred materials: (I) are (+) or (-) forms of **catechin** or **epicatechin**, or (-)-**epigallocatechin**, all optionally as their gallates. (I) is particularly Vitamin C or its derivative, e.g. ascorbyl acetate or palmitate, or magnesium ascorbyl phosphate. Preferred compositions: These contain 0.0001-20, best 0.01-1, wt.% (i) and 0.001-10, best 0.1-2, wt.% (I). The compositions may also include usual sunscreens, preservatives, surfactants, antioxidants etc., and may be formulated as solutions, emulsions, gels, etc. or in transdermal therapeutic systems.

L112 ANSWER 2 OF 3 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD  
 AN 2000-073760 [07] WPIX  
 DNC C2000-021393  
 TI Use of catechols or plant extracts containing them in intensifying natural skin tanning or in stimulating melanogenesis.  
 DC D21 D22 E13  
 IN **MAXT, H; SCHOENROCK, U; MAX, H**  
 PA (BEIE) BEIERSDORF AG  
 CYC 20  
 PI DE 19827624 A1 19991223 (200007)\* 13p A61K007-42  
 WO 9966897 A1 19991229 (200008) DE A61K007-42  
 RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
 W: JP US  
 EP 1089707 A1 20010411 (200121) DE A61K007-42  
 R: DE ES FR GB IT SE  
 ADT DE 19827624 A1 DE 1998-19827624 19980620; WO 9966897 A1 WO 1999-EP4146 19990616; EP 1089707 A1 EP 1999-929230 19990616, WO 1999-EP4146 19990616  
 FDT EP 1089707 A1 Based on WO 9966897  
 PRAI DE 1998-19827624 19980620  
 IC ICM A61K007-42  
 ICS A61K007-48  
 AB DE 19827624 A UPAB: 20000209  
 NOVELTY - Use is claimed in intensifying natural tanning of the human skin or in stimulating melanogenesis of catechols or gallic acid esters of catechols (or of aqueous or organic extracts containing such materials), preferably Theaceae (and especially *Camellia sinensis* (green tea)) leaves or their typical constituents such as polyphenols, catechols, caffeine, vitamins, sugars, minerals, amino acids or lipids.  
 USE - In cosmetics or dermatological compositions, the catechol-containing plant extract being green tea.  
 ADVANTAGE - These tanning compositions also impart protection of the skin against UV. They also avoid the formaldehyde generation associated with the use of dihydroxyacetone.  
 Dwg.0/0  
 FS CPI  
 FA AB; DCN  
 MC CPI: D08-B09A; D09-E; E06-A01; E10-E02D

L112 ANSWER 3 OF 3 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD  
 AN 2000-063503 [06] WPIX  
 DNC C2000-017829  
 TI Use of **catechin** compounds, e.g. in green tea extract, in cosmetic and dermatological preparations, especially for application to dry skin.  
 DC B02 B04 D21 E13  
 IN **DOERING, T; MAX, H; SANDHOFF, K;**  
**SCHOENROCK, U; SCHREINER, V; STAEB, F**  
 PA (BEIE) BEIERSDORF AG  
 CYC 20  
 PI DE 19824727 A1 19991209 (200006)\* 10p A61K007-48  
 WO 9962478 A1 19991209 (200006) DE A61K007-48  
 RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
 W: JP US  
 EP 1082100 A1 20010314 (200116) DE A61K007-48  
 R: DE ES FR GB IT SE  
 ADT DE 19824727 A1 DE 1998-19824727 19980603; WO 9962478 A1 WO 1999-EP3777

19990601; EP 1082100 A1 EP 1999-926491 19990601, WO 1999-EP3777 19990601  
 FDT EP 1082100 A1 Based on WO 9962478  
 PRAI DE 1998-19824727 19980603  
 IC ICM A61K007-48  
 ICS A61K035-78

AB DE 19824727 A UPAB: 20000209

NOVELTY - **Catechins** and their cholanolic acid (literally: bile acid) esters as well as plant extracts containing them are used to prevent, treat and care for dry skin and to improve skin condition by stimulating sphingolipid synthesis or strengthening the lipid barrier.

DETAILED DESCRIPTION - Use of **catechins** and their cholanolic acid (literally: bile acid) esters, including aqueous and organic plant extracts containing them, e.g. from leaves of Theaceae, especially *Camellia sinensis* (green tea), or their typical components, e.g. polyphenols, **catechins**, caffeine, vitamins, sugars, minerals, amino acids, lipids), for: (a) the prevention, treatment and/or care of dry skin or (b) the stimulation of the sphingolipid synthesis in or the strengthening of the lipid barrier of human skin is new.

USE - In cosmetic and dermatological skin preparations.

ADVANTAGE - The **catechin** compounds and their extracts are cheaper and more effective than conventionally used intercellular lipid mixtures, especially ceramides. Also, they are physiologically acceptable and have a rapid and long-lasting action.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B01-D01; B03-L; B04-A06; B04-A08C2; B04-A09A; B04-A10B; B04-B01B;  
 B04-D01; B06-A01; B10-B02; B14-N17; D08-B09A; E06-A01; E10-B02

TECH UPTX: 20000203

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred **Catechins**: The **catechin** is (+)- or (-)-**catechin**, (-)-**catechin gallate**, (-)-**gallocatechin gallate**, (+)- or (-)-**epicatechin**, (-)-**epicatechin gallate**, (-)-**epigallocatechin** or (-)-**epigallocatechin gallate**.

=> d his

(FILE 'HOME' ENTERED AT 11:17:18 ON 01 OCT 2001)  
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 11:17:27 ON 01 OCT 2001

	E (-)-CATECHIN/CN
L1	1 S E3
	E (+)-CATECHIN/CN
	E "(+)-CATECHIN"/CN
L2	1 S E3
	E (-)-CATECHIN GALLATE/CN
L3	1 S E3
	E (-)-GALLOCATECHIN GALLATE/CN
L4	1 S E3
	E "(+)-EPICATECHIN"/CN
	E "(+)-EPICATECHIN"/CN
L5	1 S E3
	E "(-)-EPICATECHIN"/CN
L6	1 S E3
	E "(-)-EPICATECHIN GALLATE"/CN
	E "(-)-EPICATECHIN"/CN
L7	1 S E7
	E (-)-EPIGALLOCATECHIN/CN
L8	1 S E3
L9	1 S E12
	E C15H14O6/MF
L10	67 S E3 AND OC5-C6/ES AND 46.150.18/RID AND 3/NR
L11	23 S L10 AND 3 4 AND 3 5 7



L12 11 S L11 NOT (11C# OR 13C# OR 14C# OR C11# OR C13# OR C14# OR LABE  
L13 7 S L12 AND 2 3 4 DIHYDROXYPHENYL  
E C22H18O10/MF  
L14 21 S E3 AND 46.150.18/RID AND 4/NR  
L15 10 S L14 AND 3 YL  
L16 7 S L15 AND 2 3 4 DIHYDROXYPHENYL  
E C22H18O11/MF  
L17 19 S E3 AND OC5-C6/ES AND 46.150.18/RID AND 4/NR  
L18 12 S L17 AND BENZOIC NOT (D OR T)/ELS  
L19 7 S L18 AND 3 YL  
E C15H14O7/MF  
L20 11 S E3 AND OC5-C6/ES AND 46.150.18/RID AND 3/NR AND 3 5 7 TRIOL  
L21 7 S L20 NOT (D OR T)/ELS  
L22 28 S L1-L9,L13,L16,L19,L21  
SAV TEMP L22 ALYSIA701/A  
SEL RN  
L23 121 S E1-E28/CRN

FILE 'HCAOLD' ENTERED AT 11:38:09 ON 01 OCT 2001

L24 99 S L22  
L25 6 S L23  
L26 105 S L24,L25  
SEL AN  
EDIT /AN /OREF

FILE 'HCAPLUS' ENTERED AT 11:39:24 ON 01 OCT 2001

L27 193 S E29-E133  
E THEA/CW  
L28 60 S E3,E4,E5  
E TEA/CW  
L29 8657 S E3  
E CAMELLIA/CW  
L30 1609 S E3,E4  
E EINENSIS/CW  
E SINENSIS/CW  
L31 2730 S E3  
E CAMELLIA/CT  
E E34+ALL  
E E2+ALL  
L32 4188 S E7+NT  
E E6+ALL  
L33 4311 S E6+NT  
L34 58 S L27 AND (TEA OR GREENTEA OR BLACKTEA OR THEA OR THEACEAE OR C  
L35 18 S L27 AND (GREEN OR BLACK) (L)TEA  
L36 58 S L34,L35  
L37 2 S L27 AND (SKIN OR DERMAT? OR EPIDERM? OR COSMETIC OR PROPHYLA?  
L38 2 S L36 AND (COSMETIC# OR PHARMACEUT? OR PHARMACOL?)/SC,SX  
L39 2 S L27 AND ANTISEPT?  
L40 5247 S L22  
L41 167 S L23  
L42 5298 S L40,L41  
L43 6956 S CATECHIN OR CATECHIN GALLATE OR GALLOCATECHIN GALLATE OR EPIC  
L44 7867 S L42,L43  
E SCHREINER V/AU  
L45 33 S E3,E4,E6,E7  
E SCHONROCK U/AU  
L46 6 S E4  
E SCHOENROCK U/AU  
L47 48 S E3-E5  
E STAB F/AU  
L48 5 S E3,E4  
E STAEB F/AU  
L49 39 S E3-E5  
E MAX H/AU  
L50 37 S E3-E5  
E DORING T/AU

L51 4 S E3,E4  
     E DOERING T/AU  
 L52 50 S E3-E5,E8-E11  
 L53 1 S E20  
     E SANDHOFF K/AU  
 L54 311 S E3,E5,E6  
     E SAENDHOFF K/AU  
     E SANDHOEFF K/AU  
     E MAXT H/AU  
 L55 1 S E4  
 L56 3 S L44 AND L45-L55  
     E TEA PRODUCT/CT  
     E E4+ALL  
 L57 7553 S E3+NT  
 L58 10551 S L28-L33,L57  
 L59 20800 S TEA OR GREENTEA OR BLACKTEA OR (GREEN OR BLACK) (L)TEA OR THEA  
 L60 2019 S L44 AND L57-L59  
 L61 73 S L60 AND COSMETIC#/SC, SX, CW  
     E SKIN/CT  
     E E3+ALL  
 L62 66138 S E4+NT  
     E E40+ALL  
 L63 669 S E4+NT  
     E E9+ALL  
 L64 5840 S E3,E2+NT  
     E E11+ALL  
 L65 2455 S E4,E3+NT  
     E E8+ALL  
     E E12+ALL  
 L66 1774 S E3+NT  
     E E6+ALL  
 L67 5424 S E3+NT  
     E E11+ALL  
 L68 55397 S E2,E1,E5-E50,E57  
     E SKIN, DISEASE/CT  
     E E3+ALL  
 L69 37473 S E4,E3+NT  
     E E75+ALL  
 L70 83 S E4+NT  
 L71 239 S L44 AND L62-L70  
 L72 95 S L60 AND L71  
 L73 615 S L60 AND (PHARMACEUT? OR PHARMACOL? OR DRUG?)/SC, SX, CW  
 L74 62 S L61,L72 AND L73  
 L75 120 S L61,L72,L74  
 L76 3 S L56 AND L75  
 L77 87 S L75 AND (PY<=1998 OR PRY<=1998 OR AY<=1998)  
 L78 35 S L77 AND COSMETIC#/SC  
 L79 10 S L77 AND (CREAM OR LOTION OR SALVE OR OINTMENT OR LINIMENT OR  
 L80 5 S L77 AND ?EMULS?  
 L81 12 S L79,L80  
 L82 13 S L76,L81  
 L83 8 S L82 AND L42  
 L84 7 S L83 NOT FOODS/TI  
 L85 5 S L82 NOT L83  
 L86 7 S L84 NOT MANITA/TI  
 L87 26 S L78 NOT L76,L79-L86  
     SEL AN DN 3 8 15 18 21  
 L88 5 S E1-E15 AND L87  
 L89 49 S L77 NOT L78-L88  
     SEL AN DN 6 14 25 40 43 48 49  
 L90 7 S E16-E36 AND L89  
 L91 19 S L76,L84,L86,L88,L90  
     SEL HIT RN

FILE 'REGISTRY' ENTERED AT 12:23:34 ON 01 OCT 2001

L92 17 S E37-E53

FILE 'REGISTRY' ENTERED AT 12:27:28 ON 01 OCT 2001

• FILE 'HCAPLUS' ENTERED AT 12:28:34 ON 01 OCT 2001

FILE 'WPIX' ENTERED AT 12:28:53 ON 01 OCT 2001

L93 639 S L43  
E CATECHIN/DCN  
E E3+ALL  
L94 242 S E2  
E GALLOCATECHIN/DCN  
E E4+ALL  
L95 97 S E2  
L96 24 S E4  
E EPICATECHIN/DCN  
E EPICATECHIN/DCN  
E E3+ALL  
L97 91 S E2  
L98 70 S E4  
E EPICATECHIN/DCN  
E E7+ALL  
L99 97 S E2  
L100 53 S E4  
L101 749 S L93-L100  
E SCHREINER V/AU  
L102 29 S E3  
E SCHONROCK U/AU  
L103 4 S E3  
E SCHOENROCK U/AU  
L104 50 S E3  
E STAB F/AU  
L105 4 S E3  
E STAEB F/AU  
L106 36 S E3  
E MAX H/AU  
L107 27 S E3  
E MAXT H/AU  
L108 1 S E3  
E DORING T/AU  
L109 3 S E3,E4  
E DOERING T/AU  
L110 8 S E3-E5  
E SANDHOFF K/AU  
L111 6 S E3  
L112 3 S L101 AND L102-L111  
L113 50 S A61K007-48/IC,ICM,ICS AND L101  
L114 2 S A61K007-48/ICA,ICI AND L101  
L115 111 S L101 AND (B14-N14? OR C14-N17? OR B12-A07 OR C12-A07 OR D08-B  
L116 62 S L101 AND (B14-R01 OR C14-R01 OR B12-L03 OR C12-L03 OR A12-V04  
L117 41892 S (P943 OR Q262 OR Q254)/M0,M1,M2,M3,M4,M5,M6  
L118 120 S L117 AND L101  
L119 165 S L113-L116,L118  
L120 48 S L119 AND A61K035-78/IC,ICM,ICS  
L121 9 S L119 AND A61K035-78/ICA,ICI  
L122 53 S L120,L121  
L123 25 S L59 AND L122  
L124 60 S L119 AND A61K007/ICM  
L125 56 S L124 NOT A61K007-16/IC,ICM,ICS  
L126 34 S L125 AND SKIN/TI  
L127 22 S L125 NOT L126  
L128 2 S L119 AND DRY SKIN  
L129 8 S L119 AND MOISTUR?

FILE 'WPIX' ENTERED AT 12:46:36 ON 01 OCT 2001